

CCTCTGAAGG TTCTAGAATC GATAGTGAAT TCGTGGGACG GGAAGAGGAA  
 51 GCACTGCCCTT TACTTCAAGTG GGAATCTCGG CCTCAGCCTG CAAGCCAAGT  
 101 GTTCACAGTG AAAAAAGCAA GAGAATAAGC TAATACTCCT GTCCTGAACA  
 151 AGGCAGCGGC TCCITGGTAA AGCTACTCCT TGATCGATCC TITGCACCGG  
 201 ATTGTTCAAA GTGGACCCCA GGGGAGAAGT CGGAGCAAAG AACTTACCAC  
 251 CAAGCAGTCC AAGAGGCCCA GAAGCAAACC TGGAGGTGAG ACCCAAAGAA  
 301 AGCTGGAACC ATGCTGACTT TGTACACTGT GAGGACACAG AGTCTGTTCC  
 351 TGGAAAGCCC AGTGTCAACG CAGATGAGGA AGTCGGAGGT CCCCAAATCT  
 401 GCCGTGTATG TGGGGACAAG GCCACTGGCT ATCACTTCAA TGTCATGACA  
 451 TGTGAAGGAT GCAAGGGCTT TTTCAGGAGG GCCATGAAAC GCAACGCCCG  
 501 GCTGAGGTGC CCCTTCCGGA AGGGCGCCTG CGAGATCACC CGGAAGACCC  
 551 GCGCACAGTG CCAGGCCTGC CGCCTGCGCA AGTGCTTGA GAGCGGCATG  
 601 AAGAAGGAGA TGATCATGTC CGACGAGGCC GTGGAGGAGA GCGGGCCTT  
 651 GATCAAGCGG AAGAAAAGTG AACGGACAGG GACTCAGCCA CTGGGAGTGC  
 701 AGGGGCTGAC AGAGGAGCAG CGGATGATGA TCAGGGAGCT GATGGACGCT  
 751 CAGATGAAAA CCTTTGACAC TACCTTCTCC CATTTCAAGA ATTCCGGCT  
 801 GCCAGGGGTG CTTAGCAGTG GCTGCGAGTT GCCAGAGTCT CTGCAGGCCC  
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 901 TCTTTGAAGG TCTCTCTGCA GCTGCGGGGG GAGGATGGCA GTGTCTGGAA  
 951 CTACAAACCC CCAGCCGACA GTGGCGGGAA AGAGATCTTC TCCCTGCTGC  
 1001 CCCACATGGC TGACATGTCA ACCTACATGT TCAAAGGCAT CATCAGCTTT  
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 1101 CCTGCTGAAG GGGGCCGCTT TCGAGCTGTG TCAACTGAGA TTCAACACAG  
 1151 TGTTC AACGC GGAGACTGGA ACCTGGGAGT GTGGCCGGCT GTCCTACTGC  
 1201 TTGGAAGACA CTGCAGGTGG CTTCCAGCAA CTTCTACTGG AGCCCATGCT  
 1251 GAAATTCCAC TACATGCTGA AGAAGCTGCA GCTGCATGAG GAGGAGTATG  
 1301 TGCTGATGCA GGCCATCTCC CTCTTCTCCC CAGACCGCCC AGGTGTGCTG  
 1351 CAGCACCGCG TGGTGGACCA GCTGCAGGAG CAATTCGCCA TTA CTCTGAA  
 1401 GTCCTACATT GAATGCAATC GGCCCCAGCC TGCTCATAGG TTCTTGTTCC

Fig. 1

1451 TGAAGATCAT GGCTATGCTC ACCGAGCTCC GCAGCATCAA TGCTCAGCAC  
 1501 ACCCAGCGGC TGCTGCGCAT CCAGGACATA CACCCCTTTG CTACGCCCCCT  
 1551 CATGCAGGAG TTGTTGCGCA TCACAGGTAG CTGAGCGGCT GCCCTTGGGT  
 1601 GACACCTCCG AGAGGCAGCC AGACCCAGAG CCCTCTGAGC CGCCACTCCC  
 1651 GGGCCAAGAC AGATGGACAC TGCCAAGAGC CGACAATGCC CTGCTGGCCT  
 1701 GTCTCCCTAG GGAATTCCTG CTATGACAGC TGGCTAGCAT TCCTCAGGAA  
 1751 GGACATGGGT GGGCCCCACC CCCAGTTCAG TCTGTAGGGA GTGAAGCCAC  
 1801 AGACTCTTAC GTGGAGAGTG CACTGACCTG TAGGTCAGGA CCATCAGAGA  
 1851 GGCAAGGTTG CCCTTTCCTT TTAAGAGGCC CTGTGGTCTG GGGAGAAATC  
 1901 CCTCAGATCC CACTAAAGTG TCAAGGTGTG GAAGGGACCA AGCGACCAAG  
 1951 GATAGGCCAT CTGGGGTCTA TGCCCACATA CCCACGTTTG TTCGCTTCCT  
 2001 GAGTCTTTTC ATTGCTACCT CTAATAGTCC TGTCTCCAC TTCCCACTCG  
 2051 TTCCCTCCT CTTCCGAGCT GCTTTGTGGG CTCAAGGCCT GTACTCATCG  
 2101 GCAGGTGCAT GAGTATCTGT GGGAGTCCTC TAGAGAGATG AGAAGCCAGG  
 2151 AGGCCTGCAC CAAATGTCAG AAGCTTGGA TGACCTCATT CCGGCCACAT  
 2201 CATTCTGTGT CTCTGCATCC ATTTGAACAC ATTATTAAGC ACTGATAATA  
 2251 GGTAGCCTGC TGTGGGGTAT ACAGCATTGA CTCAGATATA GATCCTGAGC  
 2301 TCACAGAGTT TATAGTTAAA AAAACAAACA GAAACACAAA CAATTTGGAT  
 2351 CAAAAGGAGA AAATGATAAG TGACAAAAGC AGCACAAGGA ATTTCCCTGT  
 2401 GTGGATGCTG AGCTGTGATG GCAGGCACTG GGTACCCAAG TGAAGGTTC  
 2451 CGAGGACATG AGTCTGTAGG AGCAAGGGCA CAACTGCAG CTGTGAGTGC  
 2501 GTGTGTGTGA TTTGGTGTAG GTAGGTCTGT TTGCCACTTG ATGGGGCCTG  
 2551 GGTGTGTTCC TGGGGCTGGA ATGCTGGGTA TGCTCTGTGA CAAGGCTACG  
 2601 CTGACAATCA GTTAAACACA CCGGAGAAGA ACCATTTACA TGCACCTTAT  
 2651 ATTTCTGTGT ACACATCTAT TCTCAAAGCT AAAGGGTATG AAAGTGCCTG  
 2701 CCTTGTTTAT AGCCACTTGT GAGTAAAAAT TTTTTTGCAT TTCACAAAT  
 2751 TATACTTTAT ATAAGGCATT CCACACCTAA GAACTAGTTT TGGGAAATGT  
 2801 AGCCCTGGGT TTAATGTCAA ATCAAGGCAA AAGGAA'TTAA ATAATGTACT  
 2851 TTTGGCTAAA AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA  
 2901 AAAAA

Fig. 1 (cont.)

### Evolutionary Neighbour-Joining Tree

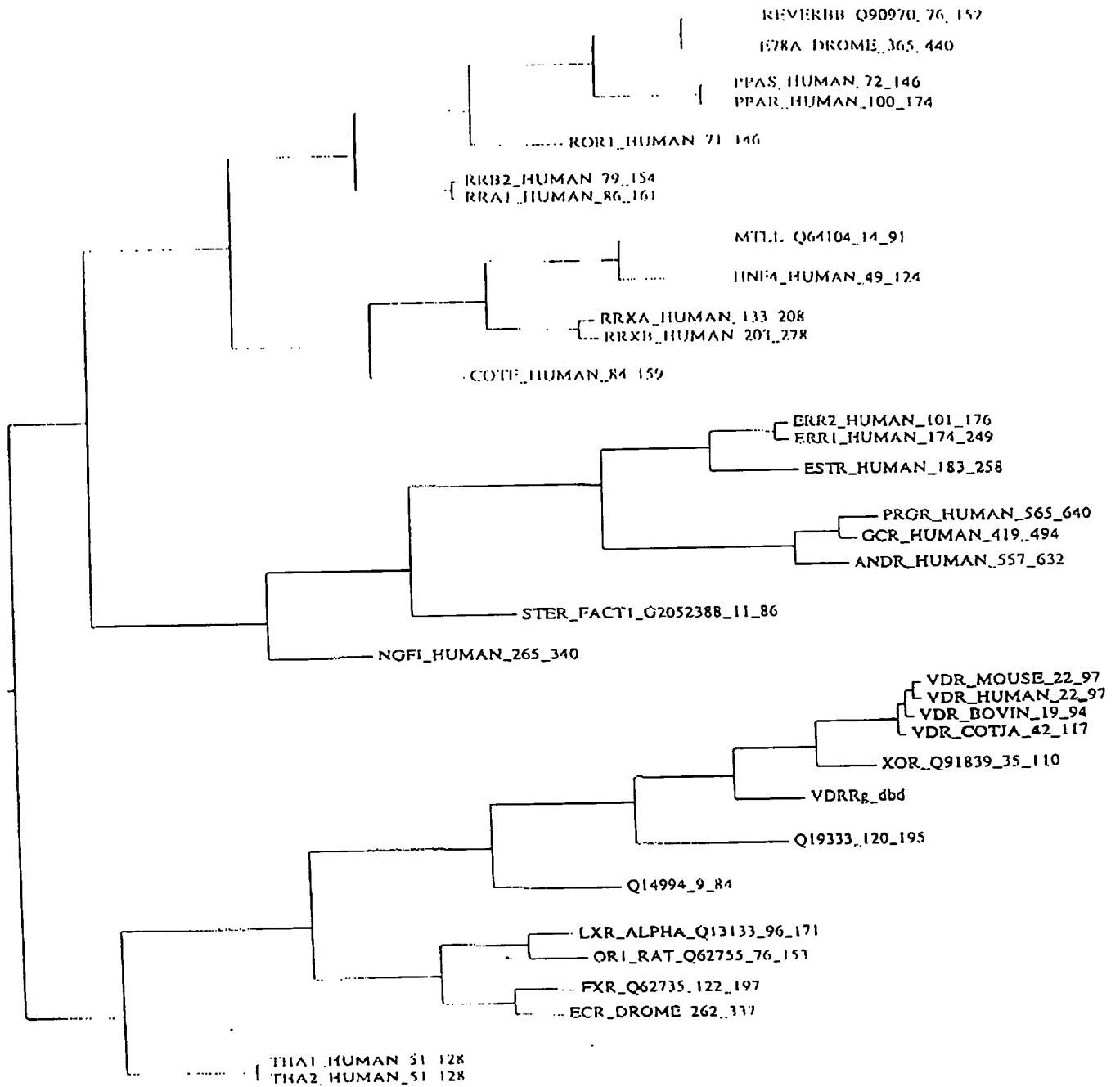
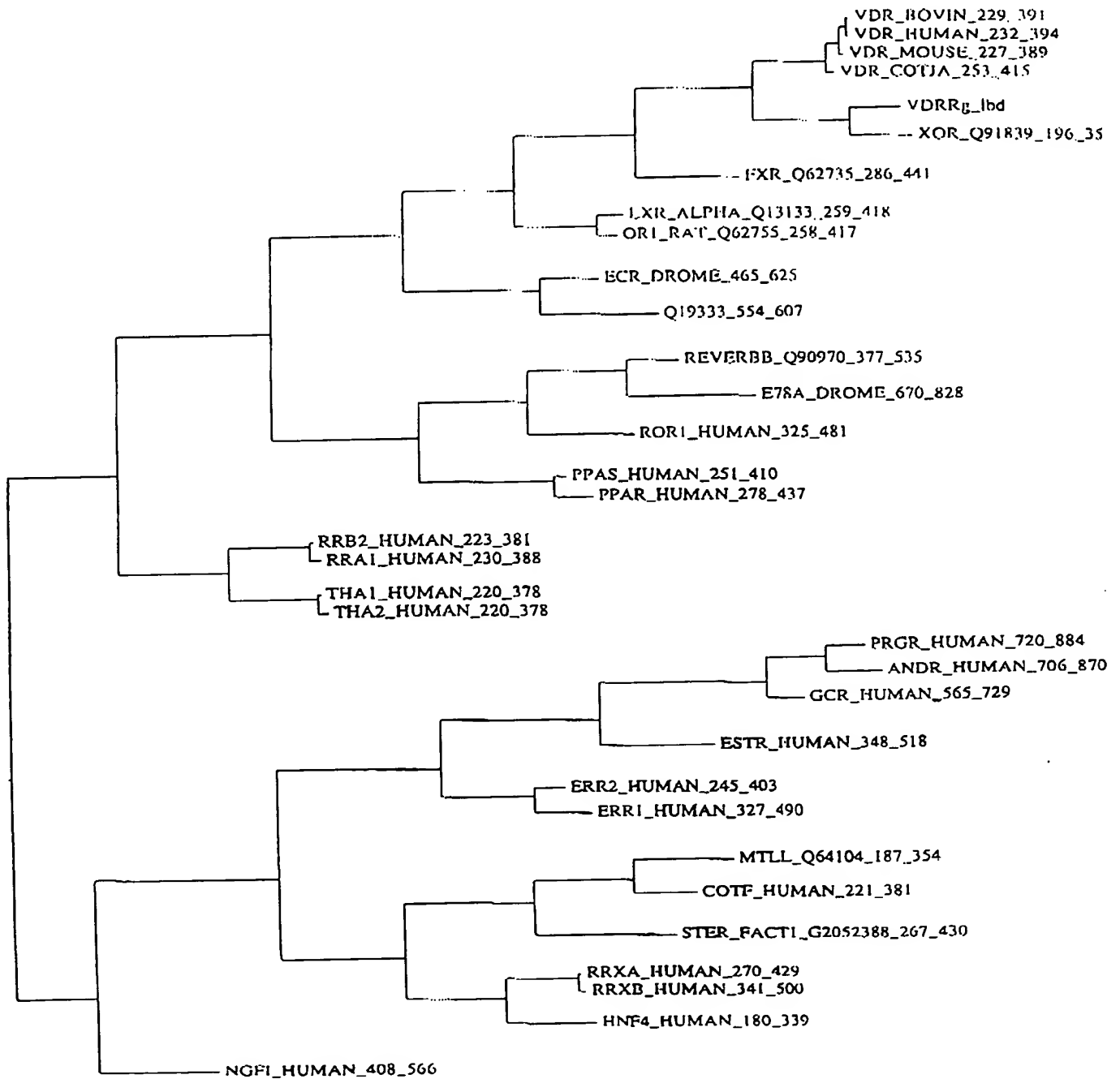


Fig. 2

## Evolutionary Neighbour-Joining Tree



00143828 083198

1 MEVRPKESWN HADFVHCEDT ESVP GKPSVN ADEEVGGPQI CRVCGDKATG  
51 YHFNVMTC EG CKGFFRRAMK RNARLRCPFR KGACEITRKT RRQCQACRLR  
101 KCLESGMKKE MIMSDEAVEE RRALIKRKKS ERTGTQPLGV QGLTEEQRMM  
151 IRELMDAQMK TFDTTFSHK NFRLPGVLSS GCELPESLQA PSREEAAKWS  
201 QVRKDLCSLK VSLQLRGEDG SVWNYKPPAD SGGKEIFSL PHMADMSTYM  
251 FKGHSFAKV ISYFRDLPIE DQISLLKGAA FELCQLRFNT VFNAETGTWE  
301 CGRLSYCLED TAGGFQQLL EPMLKFHYML KKLQLHEEEY VLMQAISLFS  
351 PDRPGVLQHR VVDQLQEQFA ITLKSYIECN RPQPAHRFLF LKIMAMLTEL  
401 RSINAQHTQR LLRIQDIHPF ATPLMQELFG ITGS

Fig. 4

09143828.083198

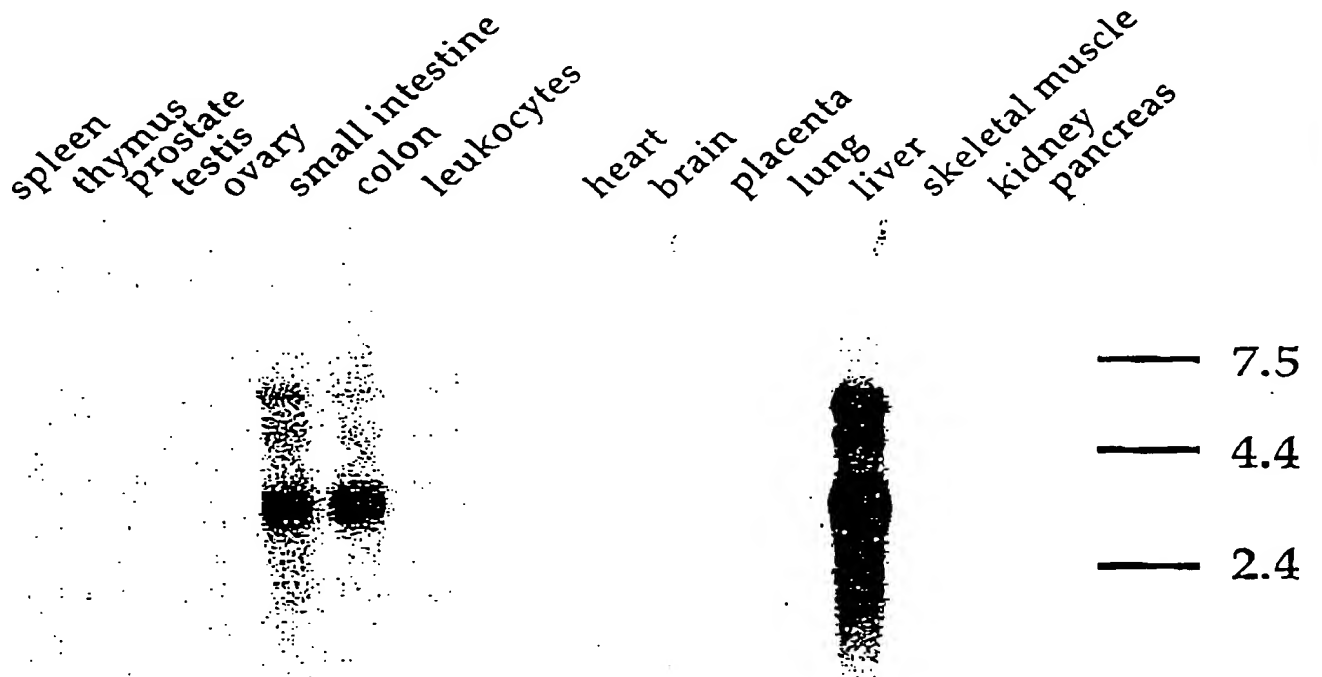


Fig. 5

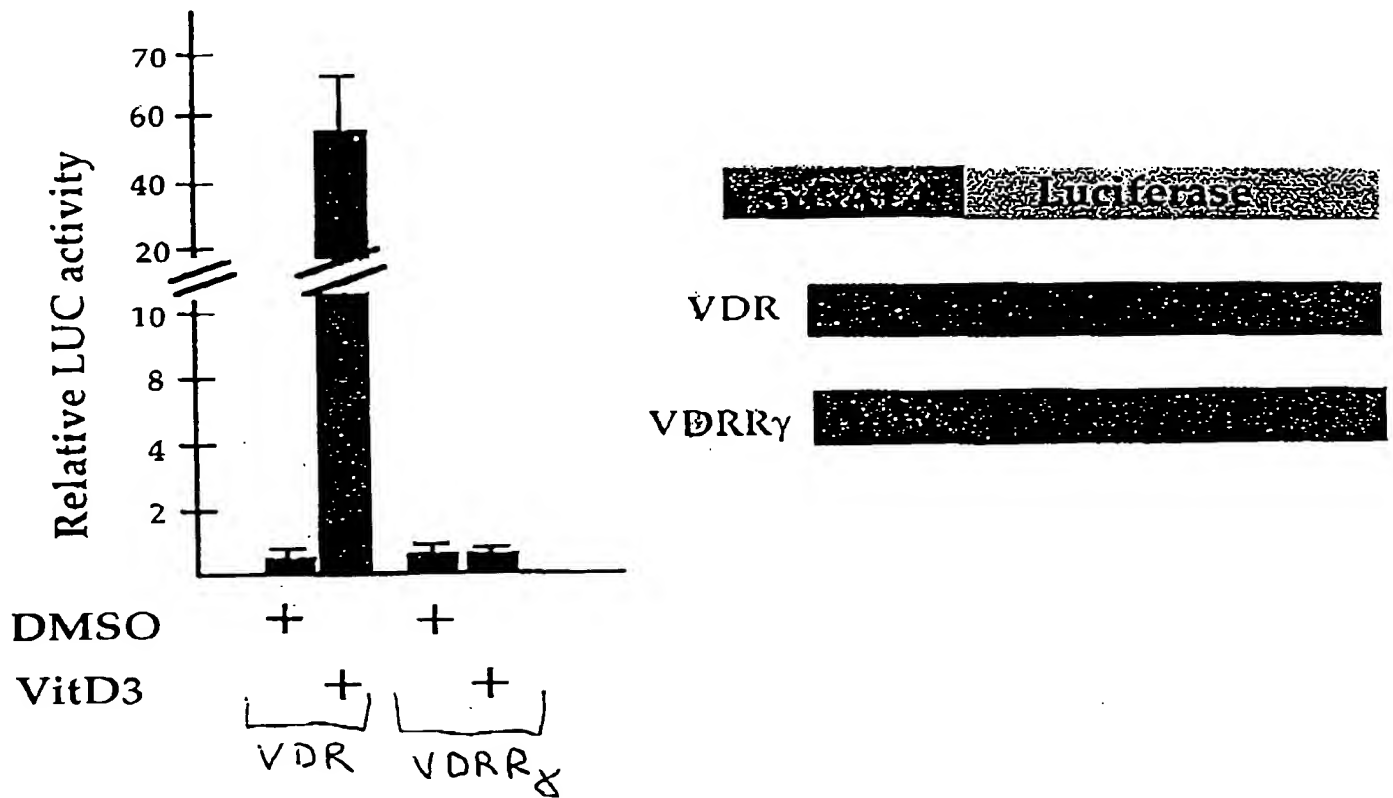


Fig. 6

TGAATTCTGGGGCTGCTGGGTTAGTGTGGCAGCCCCC 40  
 TGAGGCCAAGGACAGCAGCATGACAGTCACCAGGACTCAC 80  
 CACTTCAAGGAGGGGTCCCTCAGAGCACCTGCCATACCCC 120  
 TGCACAGTGTGCGGCTGAGTTGGCTTCAAACCATCCAAG 160  
 AGGCCCAGAAGCAAACCTGGAGGTGAGACCCAAAGAAAGC 200  
 TGGAACCATGCTGACTTTGTACACTGTGAGGACACAGAGT 240  
 CTGTTCCCTGGAAAGCCCAGTGTCAACGCAGATGAGGAAGT 280  
 CGGAGGTCCCCAAATCTGGCGTGTATGTGGGGACAAGGCC 320  
 ACTGGCTATCACTTCAATGTTCATGACATGTGAAGGATGCA 360  
 AGGGCTTTTTCAGGAGGGGCCATGAAACGCAACGCCCGGCT 400  
 GAGGTGCCCTTTCCGAAGGGGGCCCTGCGAGATCACCCGG 440  
 AAGACCCGGCGACAGTGGCAGGCCCTGCCGCTGCGCAAGT 480  
 GCCTGGAGAGCGGCATGAAGAAGGAGATGATCATGTCCGA 520  
 CGAGGCCGTGGAGGAGAGGGCGGGCCTTGATCAAGCGGAAG 560  
 AAAAGTGAACCGACAGGGACTCAGCCACTGGGAGTGCAGG 600  
 GGCTGACAGAGGAGCAGCGGATGATGATCAGGGAGCTGAT 640  
 GGACGCTCAGATGAAAACCTTTGACACTACCTTCTCCCAT 680  
 TTCAAGAATTTCCGGCTGCCAGGGGTGCTTAGCAGTGGCT 720  
 GCGAGTTGCCCAGAGTCTCTGCAGGCCCCATCGAGGGAAGA 760  
 AGCTGCCAAGTGGAGCCAGGTCCCGGAAAGATCTGTGCTCT 800  
 TTGAAGGTTCTCTGTCAGCTGCCGGGGGAGGATGGCAGTG 840  
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 GATCTTCTCCCTGCTGCCCCACATGGCTGACATGTCAACC 920  
 TACATGTTCAAAGGCATCATCAGCTTTGCCAAAGTCACT 960  
 CCTACTTTCAGGGACTTGGCCATCGAGGACCAGATCTCCCT 1000  
 GCTGAAGGGGGCGCGCTTTGAGGCTGTGTCAACTGAGATT 1040  
 AACACAGTGTTCAAACGGGAGACTGGAACCTGGGAGTGTG 1080  
 GCGGCTGTCTTACTGCTTGGGAAGACACTGCAGGTGGCTT 1120  
 CCAGCAACTTCTTACTGGAGCCCATGCTGAAATTCCACTAC 1160  
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 TGATGCAGGCCATCTCCCTCTTCTCCCCAGACCGCCAGG 1240  
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 CCCAGCCTGCTCATAGGTTCCTTGTTCCTGAAGATCATGGC 1360  
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Fig. 7

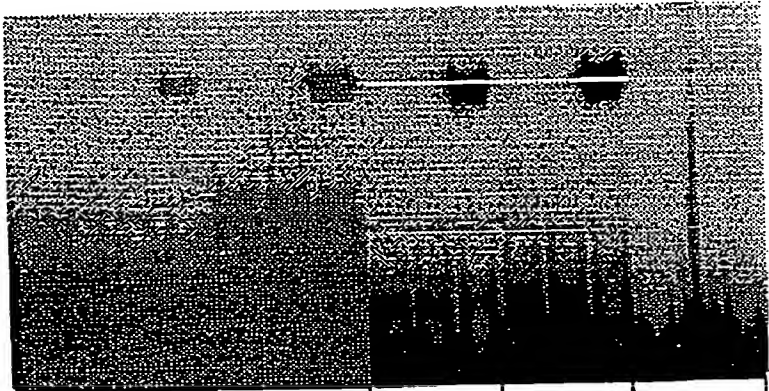


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 TGGACACTGCCAAGAGCCGACAATGCCCTGCTGGCCCTGTC 1600  
 TCCCTAGGGAATTCCCTGCTATGACAGCTGGCTAGCATTC 1640  
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 TGACCTGTAGGTTCAGGACCATCAGAGAGGCAAGGTTGCC 1760  
 TTTCCCTTTTAAAAGGCCCTGIGGTCTGGGGAGAAATCCCT 1800  
 CAGATCCCACTAAAGTGTCAGGGTGTGGAAGGGACCAAGC 1840  
 GACCAAGGATAGGCCATCTGGGGTCTATGCCACATACCC 1880  
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 ATAGTCCCTGCTTCCCACTTCCCACTCGTTCCCTCCTCTT 1960  
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 TGAACACATTATTAAGCACTGATAATAGGTAGCCCTGCTGT 2160  
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 CACAAATTATACTTTATATAAGGCATTCCACACCTAAGAA 2680  
 CTAGTTTTTGGGAAATGTAGCCCTGGGTTTAAATGTCAAATC 2720  
 AAGGCAAAAGGAATTAAATAATGTACTTTTGGCTAAAAAA 2760  
 AA 2800  
 AA 2802

Fig. 7 (cont.)

MTVTRTHHFKEGSLRAPAIPLHSAAAELASNHPRGPEANL 40  
 EVRPKESWNHADDFVHCEDTESVPGKPSVNADEEVGGPQIC 80  
 RVC GDKATGYHFNVMTCEGCKGFFRRAMKRNARLRCPFRK 120  
 GACEITRKTRRQCQACRLRKCLESGMKKEMIMSDEAVEER 160  
 RALIKRKKsertgtqplgvqglteeqrm mirelmda qmkt 200  
 FDTTFSHFKNFRLPGVLSSGCELPESLQAPSREEAAKWSQ 240  
 VRKDLCSLKVSLQLRGEDGSVWNYKPPADSGGKEIFSLLP 280  
 HMADMSTYMFKGIIISFAKVISYFRDLPIEDQISLLKGA AF 320  
 ELCQLRFNTVFNAETGTWECGRLSYCLEDTAGGFQQLLLE 360  
 PMLKFHYMLKKLQLHEEEYVLMQAI SLFSPDRPGVLQHRV 400  
 VDQLQE QFAITLKS YIECNRPQPAHRFLFLKIMAMLT ELR 440  
 SINAQHTQRLRLRIQDIHPFATPLMQELFGITGS. 474

Fig. 8

FREE PROBE  
→


RXR	-	+	-	+	+	-	+	+	-	+	+	-	+	+	-	+
VDRR	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	DR-1				DR-2			DR-3		DR-4		DR-5				

Fig. 9

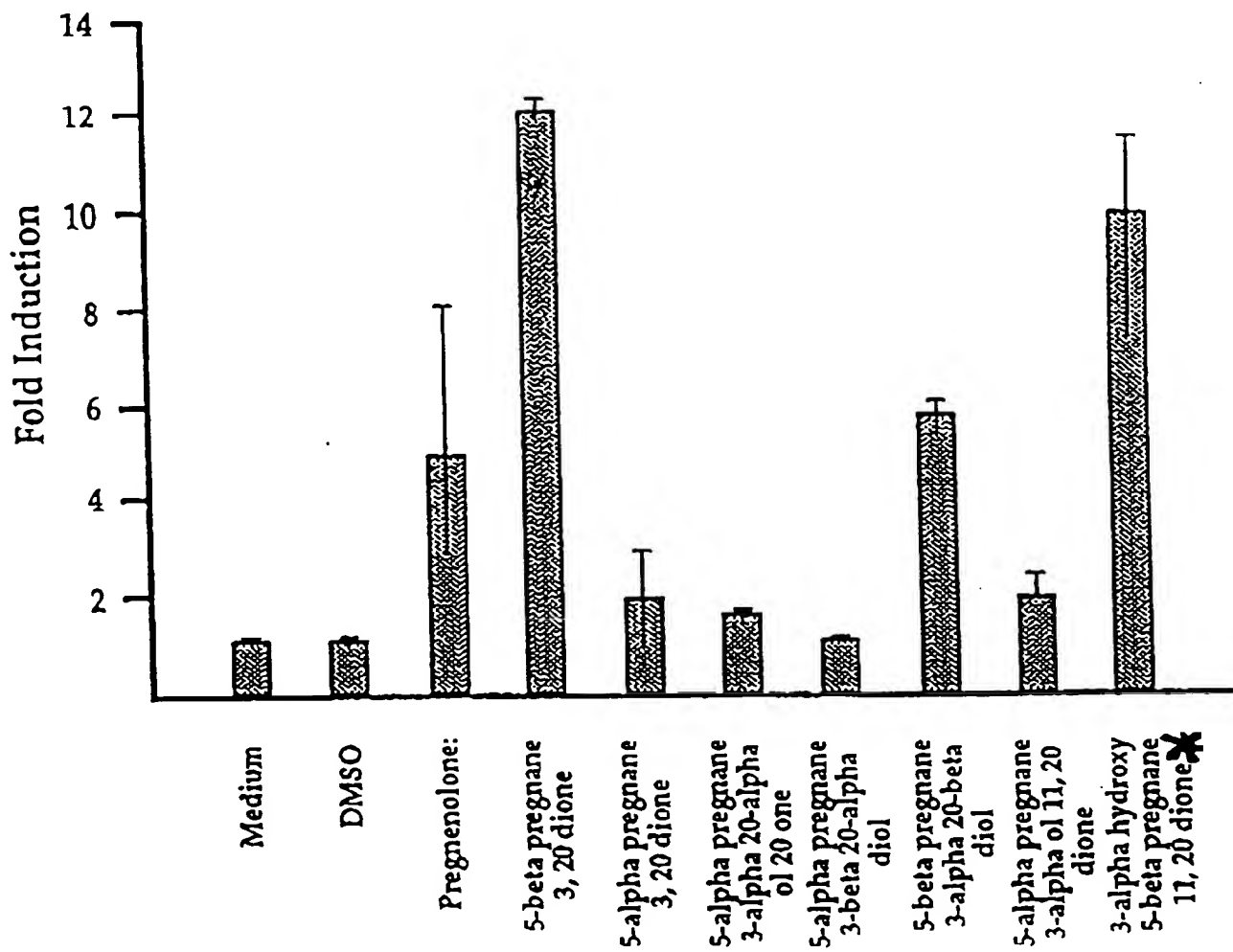


Fig. 10

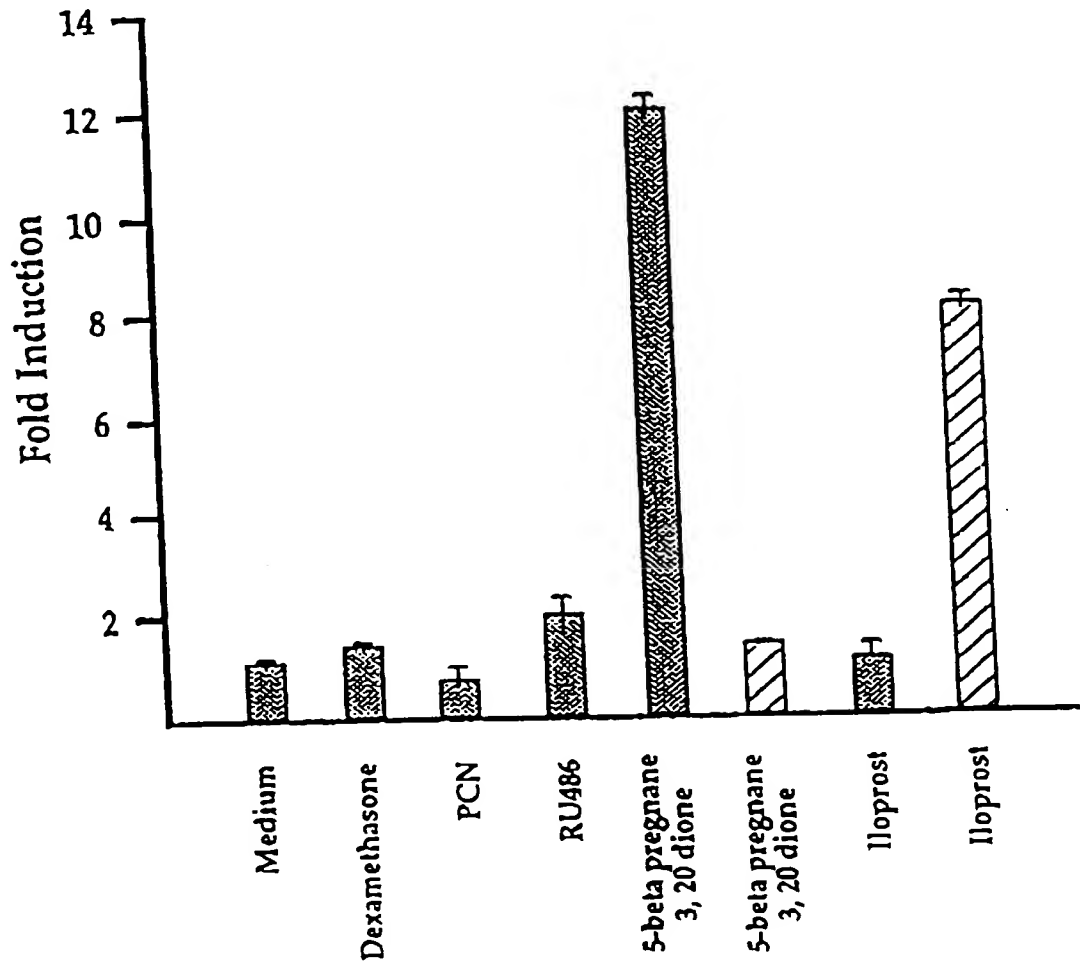


Fig. 11

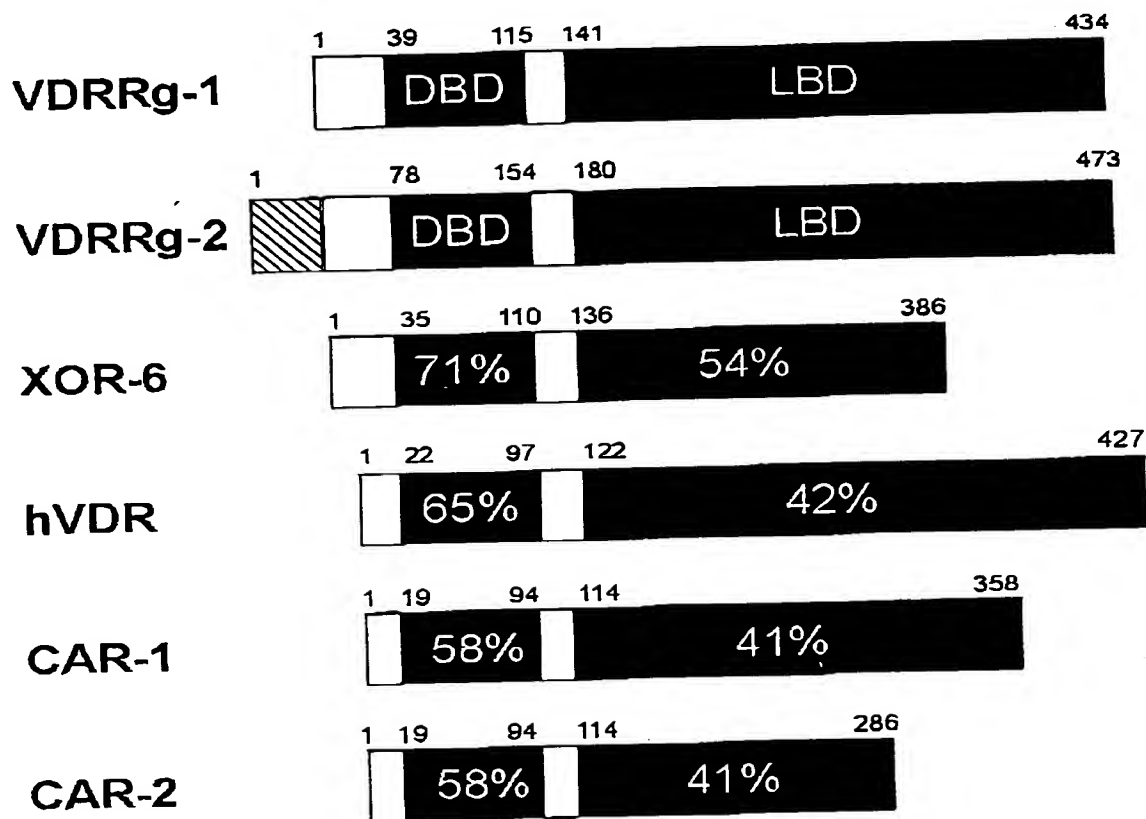


Fig. 12

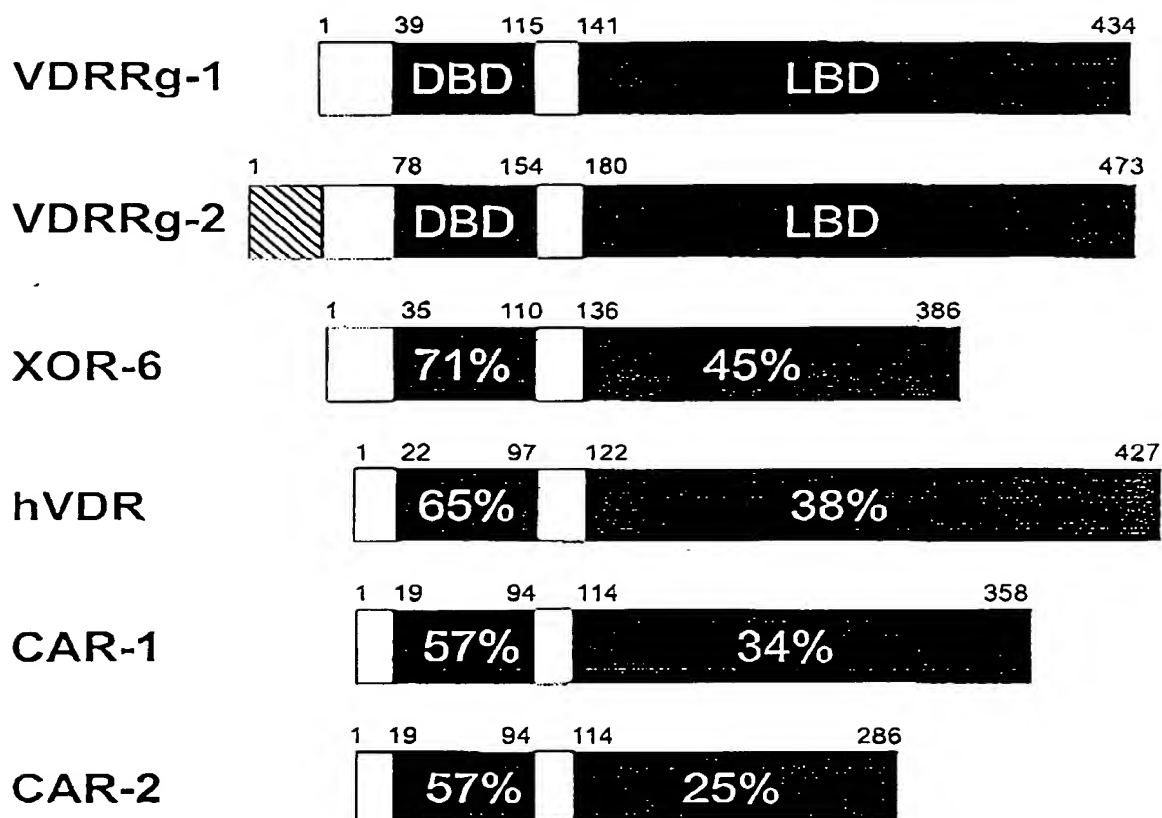


Fig. 13